Soil and Groundwater Investigation

The Camas Property Tacoma, Washington

Appendix A Site Health and Safety Plan

Prepared for Camas Associates

Prepared by

Floyd Snider McCarthy, Inc. 83 South King Street Suite 614 Seattle, WA 98104

Approved By:

Signature

Date

Ecology Review Draft

May 18, 2004

1.0 Site Description

Site Name:	Camas Property
Specific Location:	2926 South M Street, Tacoma, Washington
Site Description:	Flat warehouse and parking lot used for rag storage
Project Manager:	John E. Leder, Floyd Snider McCarthy, Inc.
Site Safety Officer:	John LaManna, Floyd Snider McCarthy, Inc.
Surrounding Population:	Mostly workers in immediate vicinity.
Site Security:	None, unfenced site.
Other Measures to Protect Health and Safety of General Public:	None.
Provisions for Anticipated Weather Conditions:	Mild to wet spring weather.
Unusual Physical Safety Issues:	None.
Brief Site History:	Used in past for roofing tar manufacturing.
Purpose of Field Activities:	To collect groundwater and soil samples.
Anticipated Activities:	Soil borings, groundwater well installation, sample logging and sample collection.

			2.0	Hazard [escription		
Field	Activity	Hazard Level:		□В	□с	⊠ D	Unknown
Poter	ntial Cher	nical Exposure	9?	⊠ Yes	□No		
If yes maxir	, list chem num allow	nicals and attact	n speci levels.	fic hazard info	ormation for ea	ch chemical.	Also include
	List of	Chemicals (de:	scribe	potential roι	ites of exposu	re for each:	
	Benzen	e, toulene, ethy	lbenze	ne, xvlene, a	asoline and die	sel range hyd	irocarbons, SVOCs), metals.
	Routes cuttings		above intal sa	chemicals ar	e: direct derma	l contact and	ingestion of soil
		the appropria					v:
	\boxtimes	Inhalation				,	
	\boxtimes	Ingestion					
	\boxtimes	Dermal					
		Explosive		•			
٠		Oxygen Defic	ciency	,			
Poten	tial Phys	ical Hazards?		⊠ Yes	☐ No		
lf yes, avoid	indicate e each type	each type of pot of physical safe	ential e ety haz	exposure, and ard:	l attach a desc	ription of the r	methods used to
	Cold Str	ess		,			
	Heat Str	ess			-		
	Noise				•		
\boxtimes	Machine	гу Hazards					*
	Confined	l Spaces		•			•
	Terrain/0	Obstacles					
	Other:						

3.0 Emergency Response

Location of HASP Field Copy:

Windshield of field vehicle

Location of First Aid Kit:

Field vehicle

Additional Emergency Equipment and On-Site Location:

Fire Extinguisher

Field vehicle

Eye Wash

Field Vehicle

Other (specify)

n/a

Nearest Hospital:

St. Joseph's Hospital. Phone: 253-627-4100

Address: 1717 South J Street, Tacoma, WA 98405

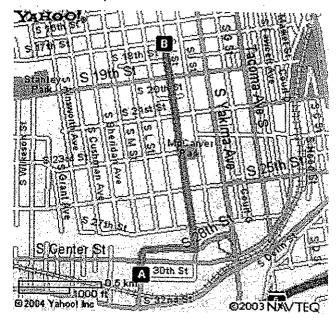
Directions to Hospital:

1. Start at 2926 South M Street, Tacoma - go 0.1 mi

2. South M ST becomes South 28TH Street - go 0.2 mi

3. Turn left on South J Street - go 0.8 mi

4. Arrive at 1717 South J Street, Tacoma



Emergency

Transportation/Assistance:

Dial 911

Poison Control:

(206) 526-2121

USEPA Region 10:

(206) 553-1200

Emergency Procedures:

• Prevent further injury, perform appropriate decontamination, and notify the Project Manager at the site or the Site Safety Officer.

Depending upon the type and severity of the injury, call 911.

 Notify the Floyd Snider McCarthy office (refer to contact information, below). Also, if injured person(s) are subcontractors, notify their offices.

• The injured party and Project Manager shall prepare accident reports and keep them on file.

Emergency Contact:

John E. Leder, Floyd Snider McCarthy, Inc.

Work: (206) 292-2078 ext. 1010

Home: (206) 523-2872

4.0 Work Practices and Provisions

Only approved Floyd Snider McCarthy personnel and subcontractors who have read and signed this safety plan will be allowed in the work zone on the site.

Floyd Snider McCarthy personnel and their subcontractors shall abide by all environmental regulations and site-specific permit conditions while working at the site.

A safety meeting shall be held at the start of fieldwork, and at least weekly thereafter to assess changing conditions.

All site work will be performed during daylight hours, unless proper lighting is provided.

An adequate supply of potable water shall be provided at the work site.

No eating, drinking, smoking, gum chewing, or tobacco chewing on-site, except in designated areas.

Wear all the personal protective equipment specified in this plan (Table 3).

Stay in visual contact with all equipment operators.

Report to the Site Safety Officer any symptoms of exposure, as well as all accidents/incidents.

Table 1 Chemical Contaminants of Concern

Contaminant	PEL (ppm)	(bpm)	Source/Quantity Characteristics	Route of Exposure	Symptoms of Acute Exposure	Instruments/ Frequency of Monitoring Contaminant ¹
Benzene	10	N/A	Historic gasoline releases	Inhalation	Dizziness	PID on each soil sample
Toluene	200	200	Historic gasoline releases	Inhalation	Dizziness	PID on each soil sample
Ethylbenzene	100	800	Historic gasoline releases	Inhalation	Dizziness	PID on each soil sample
Xylenes	100	N/A	Historic gasoline releases	Inhalation	Dizziness	PID on each soil sample
Diesel range organic			Historic releases	Inhalation; dermal		
Volatile organic compounds (VOCs)			Detected in soil	Inhalation; dermal		
Semi-volatile organic compounds (SVOCs)			Detected in soil	Dermal		Visual

Notes:

Measurements will be collected in worker's breathing zone.

Permissible exposure limit, as defined by OSHA 딢

Immediately dangerous to life and health (NIOSH) E E

Lower explosive limit 핍

Not applicable or not available

Health and Safety Plan Table 1

Table 2
Physical Hazards of Concern

Hazard	Description	Location	Procedures to Prevent Hazard
Construction equipment	Objects could fall from the drill rig tower.	Within 10 feet of drill rig.	Daily inspection of cables. Use safety clips on hooks.
Construction equipment	Personnel could be caught in the twisting augers of the drill rig.	Within 3 feet of augers.	Ensure that no personnel wear loose clothing and that long hair is bound.

Health and Safety Plan Table 2

Table 3 Personal Protective Equipment

Level o	of Personal Protection:	ПА	Пв	□ c 🛛	ח
Locatio	on:	Marine Trades			
Activity	/:			soil and groundwater sam	· · · · · · · · · · · · · · · · · · ·
Protect	ive Equipment			son and groundwater samp	pies
Clothin	-		Hood E.	ar, and Eye	
	Fully encapsulating suit Chemically-resistant splash s Apron, specify: Tyvek coverall Saranex coverall Coverall, specify:			Hard hat Goggles Face shield Safety eyeglasses Ear protection (during dri Muffs or plugs	illing)
	Other, specify: cotton work c	lothes		Other	
Respira	None SCBA, Airline Full-face respirator Half-face respirator Escape mask Other, specify:		Hand Pr	Not applicable None Undergloves, type: Gloves, type: Nitrile Overgloves, type: Other, specify:	
Foot Pr	otection		Monitori	ng Equipment	
	Not applicable Neoprene safety boots with s toe/shank	steel		CGI Oxygen meter	
	Disposable overboots Other, specify:			Rad survey Detector tubes, type: PID FID Noise meter	
Persona	Il Decontamination:	☐ Not require	<u>L_J</u>	Other, specify:	
······································	ent Decontamination			Required	
If require Wear glo face prio	ed, describe requirements: oves to collect samples, chang r to eating or drinking. Decon iter rinses.	Not require e between locataminate sampli	tions Disp	⊠ Required ose of gloves, wash hands ent with Alconox scrub and ose o	and d _. two

Attachment A Action Levels for Respiratory Protection

Monitoring Parameters	Reading	Action Level
Organic vapors ^(a,b)	0-5 ppm over background	Level D modified
	Greater than 5 ppm over a 1-minute duration	Leave work area
	1	

Notes:

- a Reading collected in worker breathing zone for organic vapors and at the ground surface or borehole for combustible gas.
- b Personnel required to use respirator must be able to demonstrate that respirator fit testing and training requirements are current.

ppm Parts per million

Attachment B Forms to be Completed for an Occupational Injury or Illness

This attachment contains the forms that should be completed by the employee and supervisor in the event of an occupational injury or illness.

Employee's Report of an Occupational Injury or Illness

Employee Name:	
Employee Job Title:	
Exact date and time of incident:	
Location of incident:	
Location of meldent.	
Barranta	
Person to whom incident was report	ted:
Witnesses:	
Summarize what you think occurred:	
	·
What could have been done to avoid the	nis accident:
	·
Explain in detail: what part(s) of your	body was injured or affected:
Is this an original injury or a re-injury?	
If a re-injury, when and where was prev	vious injury?
•	
Who was the employer?	
Claim number:	
Would you be willing to perform light-du	thy work during your and a Class
Date and time you sought medical atter	officers and strong your recovery? Yes No
Whom did you see for medical attention	
Office/Hospital:	1?
Стоси тозрцаг.	
Employee Signature	
Employee Signature:	Date:
Return this form to Floyd Snider McCar	thy, Inc. as soon as possible.

NOTE: Washington Administrative Code # 296-24-025(6) states: Employee's responsibility: "Employees shall make a prompt report to their immediate supervisor of each industrial injury."

Project Manager's Report of an Occupational Injury or Illness

Project Manager	
Date:	Exact time incident reported to you:
Employee's Name:	
Who reported the incid	dent?
Witnesses:	
Describe the incident:	
Was first aid required?	☐ Yes ☐ No
Did the accident require	a doctor's treatment?
Date and time of next do	octor appointment:
Was the employee com	petent and skillful in his/her job?
What were the causes?	
•	
Will this be a time-loss of	Local Control
If so, was the employee in:	structed to keep the company informed of his/her progress?
If not, why not?	
Has this employee had o	other occupational injuries?
Explain in detail: what	part(s) of the body was injured or affected:
Other details of the incid	ent:
Project Manager	
Signature:	Date:
_	

Health and Safety Plan Acknowledgement Form

I have read and understand the information contained in this Health and Safety Plan and its attachments, and agree to abide by its provisions.

Name (print)	Signature	Date
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